- 13. The display apparatus of claim 11, wherein the sensor detects a location of bending of the substrate.
- 14. The display apparatus of claim 11, wherein the display controller controls a size of a display area of active light-emitting elements based upon the bending of the substrate detected by the sensor.
 - 15. A display apparatus comprising:
 - a display unit having a display area to display at least one image, said display unit including:
 - a bendable substrate configured to bend and flex into a number of different positions:
 - display elements carried on said substrate; and a sensor configured detect an amount of curvature of the substrate when it is bent,

wherein.

- the display area comprises active display elements, and a size of the display area is controlled based upon the amount of curvature of the substrate.
- 16. The display apparatus of claim 15, wherein
- the display controller is configured to control the display area differently when the display unit transitions from a flat state to a bent state than when the display unit transitions from a bent state to a flat state.
- 17. The display apparatus of claim 16, wherein
- for a given change in resistance values, a rate of change of the display area is different when the display unit transitions from a flat state to a bent state than when the display unit transitions from a bent state to a flat state.
- 18. The display apparatus of claim 15, wherein the display area of active light-emitting elements is provided on a region of the substrate that is not bent.
- **19**. A method for controlling a display unit, said method comprising:
 - detecting an amount of bending of a bendable substrate of the display unit; and
 - controlling a size of a display area of active light-emitting elements at least in part based upon the bending of said substrate.

- 20. The method of claim 19, further comprising:
- detecting an amount of bending of another bendable substrate of the display unit; and
- controlling a size of a display area of active light-emitting elements at least in part based upon the bending of said another substrate.
- 21. The method of claim 20, further comprising:
- determining if a first side of said substrate is bent in a convex shape or a concave shape, said determination being based on a comparison between a result detected by a sensor regarding the bending of said substrate and a result detected by another sensor regarding the bending of said another substrate; and
- controlling a size of a display area of active light-emitting elements at least in part based upon said determination.
- 22. The method of claim 19, wherein the bending of said substrate is detected by a sensor that includes opposed electrodes, and said detecting includes:
 - applying a predetermined voltage to one of the electrodes;
 - monitoring a resistance value between the electrodes.
 - 23. The method of claim 22, further comprising:
 - comparing the resistance value of the sensor with a reference resistance value, the reference resistance value being a resistance value of the substrate in an unbent state:
 - calculating a difference between the resistance value of said sensor and the reference resistance value; and
 - setting the size of the display area of active light-emitting elements in relationship to the calculated amount.
 - 24. The method of claim 23, wherein
 - if the calculated amount is not greater than a threshold value, then the size of the display area is not reduced; and if the calculated amount is greater than the threshold value, then the size of the display area is changed.

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